



**BAR CODE MED ADMIN
(BCMA)**

Pharmacy CHUI User Manual

Version 1.0

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1 OVERVIEW

1.1 What is BCMA?

Bar Code Med Admin (BCMA) software is a point-of-care solution for validating the administration of medications. The initial software development and hardware research done at the Eastern Kansas Health Care System, Colmery-O'Neil Division, VISN 15, Heartland Veterans Health Network, is the basis from which the standard product is being built. The existing software functionality, in addition to enhancements identified by a functional workgroup with Nursing and Pharmacy representatives from various Veterans Integrated Services Networks (VISNs), is being replicated with a graphical user interface (GUI) (MS Windows-based) client/server architecture.

Automation of the medication administration process will improve medication administration accuracy and increase the efficiency of documentation. As each patient wristband and medication is scanned by a bar code reader, the software will validate that the medication is ordered, timely, and in the correct dosage—as well as electronically update the medication administration history. BCMA software offers a tool to augment, not replace, the clinical judgment of the medication administrator.

1.2 Features of BCMA

BCMA:

- Increases medication administration accuracy
- Captures drug accountability data
- Increases the information available to Nursing staff at the patient point of care
- Reduces wasted medications
- Improves communication between Nursing and Pharmacy staffs
- Provides a real-time Virtual Due List of orders for medication administration
- Records refused medications
- Records missing doses and sends the requests electronically to the Pharmacy
- Provides a point-of-care data entry/retrieval system
- Provides full compatibility with the existing *VISTA* system
- Identifies PRN entries that require effectiveness comments
- Replaces the manual Medication Administration Record (MAR) with a Medication Administration History (MAH) to provide an automatic record of a patient's medication administration information
- Provides a list of variances that identify early or late medication administrations and late PRN effectiveness entries

1.3 Intranet Documentation

Documentation for this product can now be found on the Intranet at the following address:

<http://www.vista.med.va.gov/bcma>

At this address is information about BCMA, including background, technical information, and important user documentation.



Remember to bookmark this site for future reference.

2 ABOUT THIS MANUAL

This manual contains a description of the Character-based User Interface (CHUI) options for the Pharmacy user. The manual is organized around the Medication Administration Menu Pharmacy Options. Accessing and using each option is explained. Included with each option are sample screen captures and reports.

An index and glossary are located at the end of this manual.

2.1 Special Instructions for the “First Time” Computer User

Users who are unfamiliar with BCMA or other Veterans Health Information Systems and Technology Architecture (**VISTA**) software applications are encouraged to study the DHCP Decentralized Hospital Computer Program (DHCP) *User’s Guide to Computing*. This orientation guide is a comprehensive handbook benefiting first-time users of any **VISTA** application. The purpose of the introductory material is to help users become familiar with basic computer terms and the components of a computer. It is reproduced and distributed periodically by the Kernel Development Group. To request a copy, users should contact their local Information Resources Management (IRM) staff.

2.2 Special Notations—Documentation Conventions

Responses in bold face indicate what the user is to type in. Example: In the Patient/Ward field, type **P** for Patient or **W** for Ward.

Text centered between arrows represents a keyboard key that needs to be pressed in order for the system to capture a user response or move the cursor to another field. **<Enter>** indicates that the Enter key (or Return key on some keyboards) must be pressed. **<Tab>** indicates that the Tab key must be pressed. Example: Press **<Tab>** to move the cursor to the next field, Type **Y** for Yes or **N** for No, and press **<Enter>**.

 Indicates especially important or helpful information.

2.3 Package Conventions

Up-arrows (caret or a circumflex)

^ In the CHUI application of BCMA, the user can move back to previous screens by entering a **^** and pressing **<Enter>**. Repeat this process until the desired screen is reached.

2.4 On-line Help

?, ??, ??? On-line help is available by entering one, two, or three question marks at a prompt. One question mark elicits a brief statement of what information is appropriate for the prompt; two question marks elicits more help, plus the hidden actions shown above; and three question marks will provide more detailed help, including a list of possible answers, if appropriate.

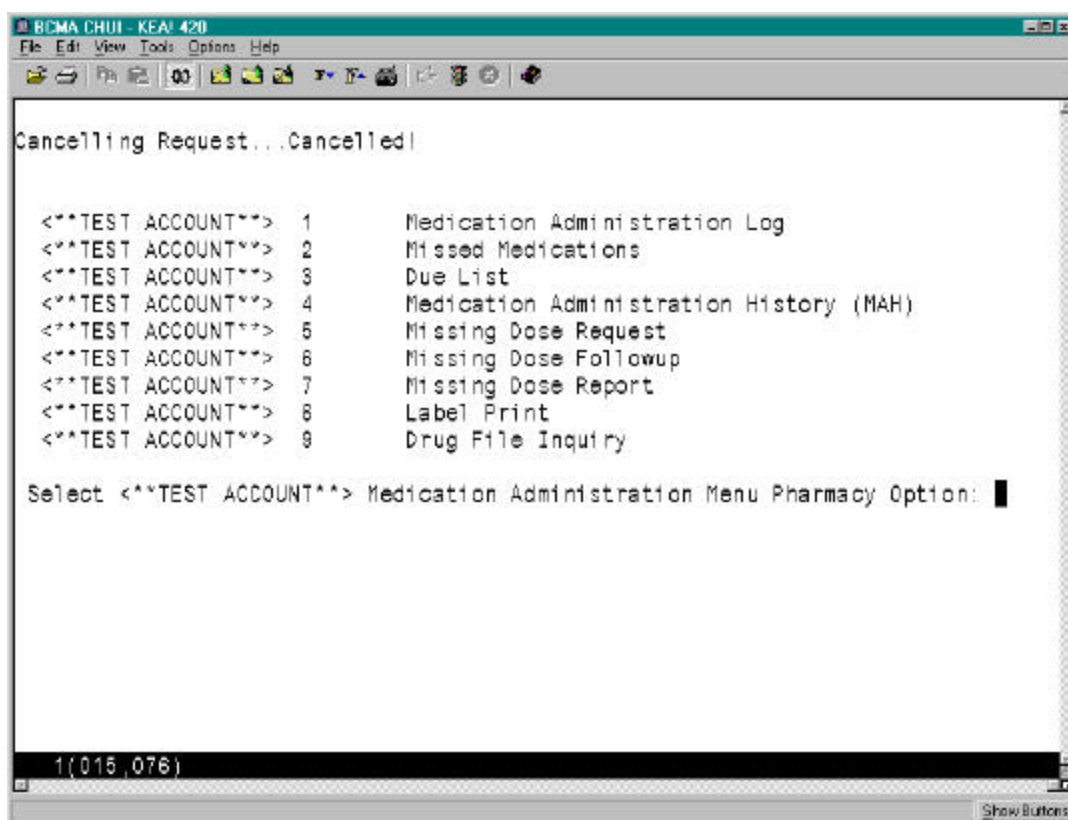
3 BCMA MENU—PHARMACY OPTION

3.1 Using the Medication Administration Menu Pharmacy Option

The Pharmacy Option menu of the Bar Code Med Admin (BCMA) allows Pharmacy personnel to access information that has been entered via the graphical user interface (GUI) Virtual Due List (VDL). Because BCMA operates in real time, scanned information is available as soon as the scan is successfully completed. The Pharmacy menu as shown in Exhibit 1, BCMA Medication Administration Menu Pharmacy Option Screen, may be accessed from any VISTA-enabled terminal within the medical center.

- ☛ Several of these options are available under both the Nursing and Pharmacy menu options. The options that are unique to Pharmacy include Missing Dose Follow-up, Missing Dose Report, and Label Print.

EXHIBIT 1: MEDICATION ADMINISTRATION MENU PHARMACY OPTION SCREEN



To select any of the options, perform the following steps:

1. The cursor will be flashing at the Select Medication Administration Menu Pharmacy Option prompt at the bottom of the screen.
2. Enter the number of the desired option.
3. Press <Enter> to display the sort screen for the option chosen.

3.2 Using ScreenMan Format to Request a Report

Many of the Pharmacy options use a common screen to define selection criteria for reports, as illustrated by Exhibit 2, Report Information Sort Screen. Other options use specific screens. This section explains the screen fields for all reports using the Report Information Sort Screen and gives instructions for entering information. Following this section are sample reports that can be run from each of the Medication Administration Menu Pharmacy options.

EXHIBIT 2: REPORT REQUEST USING SCREENMAN FORMAT

```

677TEST.i2w - Reflection 2
File Edit Connection Setup Sort Window Help

Request #: HL-19990401-134430
Medication Log

-----
Start Date: MAR 31,1999 At: 0:01a Stop Date: MAR 31,1999 At: 1:00p

Run by Patient or Ward: Patient
Patient Name: KZTAAR,*TEST*KEITH D
Ward Location: Sort by Pt or Room-Bed:

Include Comments:
Include Audits:

Print to DEVICE: T$NET_B1A13$PRINTER (1
Queue To Run At: APR 1,1999@13:44

Instructions: PF1-E Submit PF1-Q Cancel PF1-R Refresh <Ret> Re-Edit:

KZTAAR,*TEST*KEITH D 01-09-58 408029575 NO NSC VETERAN
Consolidate ALL Appts


COMMAND: Press <PF1>H for help Insert
63.76: VT400.7 - 152:131.62:17 via TELNET
Compose Run Copy Hold

```

Many of the reports can be sorted and printed in the following ways:


- By patient. The information will display chronologically.
- By ward. The information can be sorted by patient or room/bed, and it will be printed chronologically within patient.

1. In the Start Date field, type in the start date of the report, and press **<Enter>**. (The cursor will move to the next field each time **<Enter>** is pressed.)


 To display a list of standard date and time formats, enter **?** in any date or time field, and press **<Enter>**.

2. In the first At field, type the start time of the report (in HHMM format), and press **<Enter>**.
3. In the Stop Date field, type in the stop date, and press **<Enter>**.
4. In the second At field, type the stop time (in HHMM format), and press **<Enter>**.
5. In the Run by Patient or Ward field, type **P** or **W**, and press **<Enter>**.

- (If the report is being sorted by ward) In the Ward Location field, type in the ward designation, and press <Enter>. In the Sort by Pt or Room-Bed field, type **P** for Patient or **R** for Room, and press <Enter>.
- (If the report is being sorted by patient) In the Patient Name field, type the patient's name, and press <Enter>.

 To display a list of standard name formats, enter **?** in any Patient Name field, and press <Enter>.

8. In the Include Comments field, enter **Y** for Yes or **N** for No, and press <Enter>.


 If a Yes/No field is blank, just press <Enter> to respond No.

9. In the Include Audits field, enter **Y** for Yes or **N** for No, and press <Enter>.

10. In the Print to Device field, type in a valid printer, and press <Enter>.

11. In the Queue to Run At field press <Enter> to accept the date displayed, or enter a date and time and, press <Enter>. The report will print at the time and date entered.

12. At the <RET> Re-Edit prompt, press **PF1** (or Num Lock) followed by **E** to submit this report for printing. Other available actions at this prompt are **PF1-Q** to Quit or **PF1-R** to Refresh the screen.

 Depending on how the user's facility is configured, either the PF1 key or Num Lock will be active. For consistency, this manual refers to the PF1 convention, but users are advised that PF1 is the same as Num Lock, if that is the active function at their sites.

13. The screen will now clear and the following message will appear: Submitting your report request to Taskman... Submitted! Your Task Number is: ###.

3.3 Medication Administration Log

The Medication Administration Log displays detailed administration information. The report can be sorted and printed by patient or ward, and the user can specify the date and time range that the report covers.

See Section 3.2, Using ScreenMan Format to Request a Report, for instructions on requesting a Missed Medications Report.

The Medication Administration Log will print in a 132-column output. Exhibit 3, Med Log by Patient Report, and Exhibit 4, Med Log By Ward Report, show examples of both Med Log reports.

EXHIBIT 3: MED LOG BY PATIENT REPORT

=====

MEDICATION LOG for Apr 14, 1999@00:01 thru Apr 14, 1999@13:00

LOG TYPE: INDIVIDUAL PATIENT

Run Date: JUN 10, 1999@09:29

Page: 1

Patient: KZTAAR,*TEST*KEITH D

Sex: MALE

Dx: PNEUMONIA

SSN: 408-02-9578

Ht/Wt: */*

Last Mvmt: APR 8,1999@14:07:51

DOB: JAN 2,1941 (58)

Ward: BCMA Rm A427-02

Type: SPECIALTY TRANSFER

Reactions: STRAWBERRIES

=====

Activity Date	Orderable Item [Dose/Sched/Route/Inj Site]	Admin By	Admin Date/Time	Drug/Solution/Additive	U/Ord	U/Gvn Unit
04/14/99 09:00	ARTIFICIAL TEARS [2 GTTS 0600-0800-1000-1200-1400-1600-18 00-2000-2200 OPH]	N2	04/14/99 14:00	ARTIFICIAL TEARS /ML	1.00	1.00 2 DROPS
	Comments: 04/14/99 14:00 N2	I DIDN'T GIVE IT				
	04/14/99 14:03 N2	I GAVE IT TWICE				
04/14/99 09:04	CEFTAZIDIME [INFUSE OVER 30 MIN. Q12H IV Inj Site: Arm, Left Upper]	N2	04/14/99 09:04	CEFTAZIDIME - 1 GM DEXTROSE 5%/WATER - 50 ML		
	Comments: <No Comments>					
04/14/99 09:08	ASCORBIC ACID [500MG MO-WE-FR@0900-1700 PO]	N2	04/14/99 09:08	ASCORBIC ACID 500MG TAB	1.00	2.00 CAP
	Comments: 04/14/99 14:06 N2	NEW ORDER TO DOUBLE THE DOSE TODAY				
04/14/99 09:55	MULTIVITAMINS [1TABLET QD PO]	N2	04/14/99 09:57	MULTIVITAMIN TAB	1.00	1.00 TAB
	Comments: 04/14/99 09:55 N2	Patient Refused				
	04/14/99 09:57 N2	Patient Refused				
	04/14/99 14:04 N2	THIS ISN'T WORKING???				
04/14/99 09:59	IPRATROPIUM [2 PUFFS Q6H INHL]	N2	04/14/99 09:59	IPRATROPIUM BROMIDE INHALER	1.00	1.00 2 PUFFS
	Comments: 04/14/99 09:59 N2	PT GOING TO X-RAY				
04/14/99 09:59	POTASSIUM CHLORIDE [75 ml/hr IV Inj Site: Arm, Right Upper]	N2	04/14/99 09:59	POTASSIUM CHLORIDE - 20 MEQ DEXTROSE 5%/WATER - 1000 ML		
	Comments: <No Comments>					

=====

KZTAAR,*TEST*KEITH D

408-02-9578

Ward: BCMA Room-Bed: A427-02

=====

EXHIBIT 4: MED LOG BY WARD REPORT

Continuing/PRN/Stat/One Time Medication/Treatment Record (Detailed Log) (VAF 10-2970 B, C, D)

Run Date: JUL 26, 1999@10:23

LOG TYPE: WARD

Page: 1

Ward Location: BCMA

Division: TOPEKA, KS

Activity Date	Orderable Item [Dose/Sched/Route/Inj Site]	Admin By	Admin Date/Time	Drug/Solution/Additive	U/Ord	U/Gvn Unit
---------------	---	-------------	--------------------	------------------------	-------	------------

ARIZONA,BCPATIENT (509680003)

Ward: BCMA Rm-Bed: 401-09

04/14/99 09:04	CEFTAZIDIME [INFUSE OVER 30 MIN. Q12H IV Inj Site: Arm, Left Upper]	N3	04/14/99 09:04	CEFTAZIDIME - 1 GM DEXTROSE 5%/WATER - 50 ML		
----------------	---	----	----------------	---	--	--

04/14/99 09:05	POTASSIUM CHLORIDE [75 ml/hr IV Inj Site: Arm, Left Upper]	N3	04/14/99 09:05	POTASSIUM CHLORIDE - 20 MEQ DEXTROSE 5%/WATER - 1000 ML		
----------------	--	----	----------------	--	--	--

04/14/99 14:48	MOISTURIZING LOTION [PRN TOP] PRN Reason: C/O ITCHING PRN Effectiveness: NO RELIEF Entered By: STUDENT,NURSE THREE Date/Time: APR 14, 1999@14:49:39 Minutes: 1	N3	04/14/99 14:48	DRY SKIN LOTION/ML	1.00	0.00
----------------	--	----	----------------	--------------------	------	------

04/14/99 14:57	ACETAMINOPHEN [325-650MG Q4H PRN PO] PRN Reason: C/O H/A PRN Effectiveness: RELIEF Entered By: STUDENT,NURSE THREE Date/Time: APR 14, 1999@14:59:01 Minutes: 179	N3	04/14/99 12:00	ACETAMINOPHEN 325MG TAB	2.00	3.00 TAB
----------------	---	----	----------------	-------------------------	------	----------

ARKANSAS,BCPATIENT (509680004)

Ward: BCMA Rm-Bed: A415-01

04/14/99 09:00	ARTIFICIAL TEARS [2 DROPS 0600-0800-1000-1200-1400-1600-1800-2000-2200 OPH]	N4	04/14/99 09:00	ARTIFICIAL TEARS /ML	1.00	1.00 2 DROPS
----------------	---	----	----------------	----------------------	------	--------------

04/14/99 09:04	CEFTAZIDIME [INFUSE OVER 30 MIN. Q12H IV Inj Site: Arm, Right Upper]	N4	04/14/99 09:04	CEFTAZIDIME - 1 GM DEXTROSE 5%/WATER - 50 ML		
----------------	--	----	----------------	---	--	--

04/14/99 09:06	ASCORBIC ACID [500MG MO-WE-FR@0900-1700 PO]	N4	04/14/99 09:06	ASCORBIC ACID 500MG TAB	1.00	1.00 TAB
----------------	---	----	----------------	-------------------------	------	----------

3.4 Missed Medications

Medications that were not scanned as administered during an administration time window appear on the Missed Medications report. The report includes missed medication, dosage, and scheduled time. The report can be sorted and printed by ward or patient, and the user can specify the date and time that the report covers.

Information that may appear on this report includes medications that were scheduled to be administered, but were not marked as Given, Held, or Refused. Medications placed on Hold via CPRS or Inpatient Medications V.5.0 will appear on this report with Hold in parentheses.

The missed med by ward report should be run after each scheduled admin time. All entries appearing on this report should be resolved.

See Section 3.2, Using ScreenMan Format to Request a Report, for instructions on requesting a Missed Medications Report.

The Missed Medication reports will print in a 132-column output. Exhibit 5, Missed Medications by Patient Report, and Exhibit 6, Missed Medications by Ward Report, show examples of both Missed Medications reports.

EXHIBIT 5: MISSED MEDICATIONS BY PATIENT REPORT

=====			
MISSED MEDICATIONS from Mar 31, 1999@09:00 thru Mar 31, 1999@13:00			
Run Date: MAR 31, 1999@13:19			
Page: 1			
Patient:	KZTAAR,*TEST*KEITH D	SSN:	408-02-9575
Sex:	MALE	Ht/Wt:	182cm/80kg
Dx:	IDDM	Last Mvmt:	NOV 3,1998@09:28:57
		DOB:	JAN 9,1958 (41)
		Ward:	MICU-T Rm 401-01
		Type:	SPECIALTY TRANSFER
Reactions: NKDA, EGGS, STRAWBERRIES			
=====			
Administration Date/Time	Medication		

Mar 31, 1999@09:00	ALBUTEROL INHALANT		
Mar 31, 1999@09:00	BENZTROPINE TAB		
Mar 31, 1999@09:00	CLOTRIMAZOLE CREAM, TOP		
Mar 31, 1999@09:00	MULTIVITAMINS TAB		
Mar 31, 1999@12:00	POLYVINYL ALCOHOL SOLN, OPH		
Mar 31, 1999@13:00	ALBUTEROL INHALANT		
Mar 31, 1999@13:00	AMOXICILLIN CAP, ORAL		
Mar 31, 1999@13:00	CLOTRIMAZOLE CREAM, TOP		
Mar 31, 1999@13:00	WARFARIN TAB		
=====			
KZTAAR,*TEST*KEITH D	408-02-9575	Ward: MICU-T Room-Bed:	
401-01			

EXHIBIT 6: MISSED MEDICATIONS BY WARD REPORT

MISSED MEDICATIONS from Mar 31, 1999@09:00 thru Mar 31, 1999@13:00
 Run Date: MAR 31, 1999@14:08

Page: 1

Ward Location: 3-1CP
 Division: TOPEKA, KS

Ward Rm-Bed	Patient	Administration Date/Time	Medication
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@09:00	ACETAMINOPHEN TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@09:00	FUROSEMIDE TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@09:00	HALOPERIDOL INJ,SOLN
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@09:00	LANSOPRAZOLE CAP,SA
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@09:00	THIAMINE TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@09:00	THIORIDAZINE TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@09:00	TRIFLUOPERAZINE TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@09:00	WARFARIN TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@13:00	ACETAMINOPHEN TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@13:00	DILTIAZEM TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@13:00	HALOPERIDOL INJ,SOLN
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@13:00	HYDROCORTISONE CREAM,TOP
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@13:00	PHENYTOIN CAP,SA
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@13:00	THIAMINE TAB
3-1CP-T 31C-31	COSMO,RANDY B (1111)	Mar 31, 1999@13:00	THIORIDAZINE TAB
3-1CP-T 31C-44	HTTELMA,*TEST*LUTHER ELISHA (1286)	Mar 31, 1999@09:00	ASPIRIN TAB,EC
3-1CP-T 31C-44	HTTELMA,*TEST*LUTHER ELISHA (1286)	Mar 31, 1999@13:00	ASPIRIN TAB,EC
3-1CP-T 31C-45	TRENRU,*TEST*VEODA M (6931)	Mar 31, 1999@09:00	DOCUSATE CAP,ORAL

3.5 Due List

The Medication Due List is a printed copy of the Virtual Due List available in the GUI Menu. The report can be printed for specified date/time ranges and by patient or ward. Within patient or ward, the report may include or exclude the following:

- Continuous, PRN, On-Call, and One-time Schedule Types
- Unit Dose or IV Route medications
- Addendums

To enter information for the report, perform the following steps to enter information on the screen illustrated in Exhibit 7, Due List Report Request Screen.

EXHIBIT 7: DUE LIST REPORT REQUEST SCREEN

Request #: DL-19990718-141257 Due List

Start Date: [REDACTED] At: Stop Date: At:

Run by Patient or Ward:

Patient Name:

Ward Location: Sort by Pt or Room-Bed:

Include Schedule - Continuous: Yes Include Order Types - IV: Yes
 PRN: Yes Unit Dose: Yes
 On Call: Yes
 One-Time: Yes Include Addendums: No

Print to DEVICE: BCAUX(VT320)
 Queue To Run At: JUL 18, 1999@14:12

Instructions: PF1-E Submit PF1-Q Cancel PF1-R Refresh <Ret> Re-Edit:

COMMAND: 1(004,014) Press <PF1>H for help Insert

Show Buttons

1. In the Start Date field, type the date, and press **<Enter>**.
2. In the first At field, type the time, and press **<Enter>**.
3. In the Stop Date field, type a date, and press **<Enter>**.
4. In the second At field, type a time, and press **<Enter>**.
5. In the Run by Patient or Ward field, type **P** for Patient or **W** for Ward, and press **<Enter>**.
 - (If the report is being sorted by patient) In the Patient Name field, type the patient's name, and press **<Enter>**.

- (If the report is being sorted by ward) In the Ward Location, type in the ward designation, and press <Enter>. In the Sort by Pt or Room-Bed field, type in **P** for Patient or **R** for Room/bed name, and press <Enter>.
- 6. In the Include Schedule fields, type **Y** for the desired schedule type(s) and **N** for the others and, press <Enter>.
- 7. In the Include Order Types, type **Y** or **N** in the IV field and Unit Dose field and press <Enter>. If the user enters **No** in both fields, no orders will print on the report.
- 8. In the Include Addendums field, type **Y** or **N**, and press <Enter>. When **Y** is entered, an additional section called Changes/Addendums to Orders will print at the bottom of the report. This user can use this section to manually record information about a medication administration.
- 9. In the Print to Device field, type the desired printer, and press <Enter>.
- 10. In the <Ret> Re-Edit field, press the **PF1** followed by **E** (Exit) to submit the request for printing. (Other available actions in this field are **PF1 - Q** to Quit this option or **PF1 - R** to Refresh the screen.)
- 11. The screen will now clear and the following message will appear: Submitting your report request to Taskman... Submitted! Your Task Number is:####.

The Medication Due List reports will print in a 132-column output. Exhibit 8, Due List by Patient Report, and Exhibit 9, Due List by Ward Report, show examples of both Due List reports.

EXHIBIT 8: DUE LIST BY PATIENT REPORT

```

=====
MEDICATION DUE LIST for JUL 26, 1999 0800-1000                               Run Date: JUL 26, 1999@14:39
Order Type(s): IV & Unit Dose -- Continuous                                     Page: 1

Patient:  KZTAAR,*TEST*KEITH D          SSN:      408-02-9578          DOB:    JAN 2,1941 (58)
Sex:      MALE                          Ht/Wt:     */*              Ward:   BCMA Rm A427-02
Dx:       PNEUMONIA                     Last Mvmt:  APR 8,1999@14:07:51  Type:  SPECIALTY TRANSFER

Reactions:  STRAWBERRIES
=====
Self Med  Sched  Medication                                     Dose                                     Last Given      Start Date      Stop Date      Verifying
=====
UD-C      ALBUTEROL SOLN,INHL                                     *ALBUTEROL 0.083% INHL SOLUTION
          3ML EA. (7014)
          Spec Inst: <None Entered>          Give: 3MML Q4H
          Admin Times: 0900                  06/03/99@0904  07/05/99  08/04/99  RAC/RAC
-----
UD-C      ARTIFICIAL TEARS SOLN,OPH
          *ARTIFICIAL TEARS /ML (7021)
          Spec Inst: WHILE AWAKE            Give: 2 DROPS
          Admin Times: 0800-1000-1200-1400-1600-1800-
          2000-2200                          06/09/99@1609  07/05/99  08/04/99  RAC/RAC
-----
Changes/Addendums to orders
=====
CON ___ PRN ___ Drug: _____ Give: _____ Start: _____ Stop: _____
          Spec
OT ___ OC ___ Inst: _____ Initials: _____ Date: _____
-----
CON ___ PRN ___ Drug: _____ Give: _____ Start: _____ Stop: _____
          Spec
OT ___ OC ___ Inst: _____ Initials: _____ Date: _____
=====
KZTAAR,*TEST*KEITH D          408-02-9578          Ward: BCMA Room-Bed: A427-02

```

EXHIBIT 9: DUE LIST BY WARD REPORT

☛ The Due List by Ward Report prints one page per patient.

```

=====
MEDICATION DUE LIST for JUL 26, 1999 0800-1000                                Run Date: JUL 26, 1999@14:43
Order Type(s): IV & Unit Dose  -- Continuous                                     Page: 1

Patient: CONNECTICUT,BCPATIENT      SSN: 509-68-0007      DOB: DEC 3,1958 (40)
Sex:    MALE                        Ht/Wt: */*          Ward: BCMA Rm A427-03
Dx:     CHEST PAIN                  Last Mvmt: APR 8,1999@14:14:45  Type: SPECIALTY TRANSFER

Reactions:  STRAWBERRIES
=====
Self
Med  Sched  Medication                                Dose                                Last      Start   Stop    Verifying
                                     Given      Date     Date     Rph/Rn
-----
      UD-C   ARTIFICIAL TEARS SOLN,OPH
            *ARTIFICIAL TEARS /ML (7021)
            Spec Inst: WHILE AWAKE
                                     Give: 2 DROPS
                                     0600-0800-1000-1200-1400-1600-1800-
                                     2000-2200
                                     Admin Times: 0800-1000
                                     07/23/99@0824  07/12/99  08/11/99  KB/**
-----
      UD-C   CLOTRIMAZOLE CREAM, TOP
            *CLOTRIMAZOLE 1% CREAM /GM (7071)
            Spec Inst: SMALL AMOUNT TOPICALLY
            TO AREA
                                     Give: QID
                                     Admin Times: 0900
                                     07/21/99@1601  07/12/99  08/11/99  KB/**
-----
      UD-C   MULTIVITAMINS TAB
            *MULTIVITAMIN TAB (5512)
            Spec Inst: <None Entered>
                                     Give: 20meq QOD
                                     Admin Times: 0900
                                     07/26/99@0842  07/26/99  08/25/99  KB/**
-----

Changes/Addendums to orders
-----
CON ___ PRN ___ Drug: _____ Give: _____ Start: _____ Stop: _____
OT  ___ OC  ___ Spec _____
Inst: _____ Initials: _____ Date: _____
-----
CON ___ PRN ___ Drug: _____ Give: _____ Start: _____ Stop: _____
OT  ___ OC  ___ Spec _____
Inst: _____ Initials: _____ Date: _____
=====
CONNECTICUT,BCPATIENT                                509-68-0007                                Ward: BCMA Room-Bed: A427-03

```

3.6 Medication Administration History (MAH)

The electronic MAH can be printed for a specified date range for a single patient or a ward and shows medications that have been marked as Given, Held, or Refused.

☛ The report prints a 7-day history, running from Sunday to Saturday. For example, if the user enters Start and Stop Dates that fall in the middle of a week, the report will show the medication history from the previous Sunday to the following Saturday.

See Section 3.2, Using ScreenMan Format to Request a Report, for instructions on requesting a Missed Medications Report.

Exhibit 10, Medication Administration History by Patient Report, shows an example of the MAH report.

EXHIBIT 10: MEDICATION ADMINISTRATION HISTORY BY PATIENT REPORT

=====

Continuing/PRN/Stat/One Time Medication/Treatment Record (VAF 10-2970 B, C, D)

Run Date: JUL 26, 1999@10:53

Page: 1

Patient: KZTAAR,*TEST*KEITH D

SSN: 408-02-9578

DOB: JAN 2,1941 (58)

Sex: MALE

Ht/Wt: */*

Ward: BCMA Rm A427-02

Dx: PNEUMONIA

Last Mvmt: APR 8,1999@14:07:51

Type: SPECIALTY TRANSFER

Reactions: STRAWBERRIES

=====

Start Date	Stop Date	Admin Times	04/11/1999	04/12/1999	04/13/1999	04/14/1999	04/15/1999	04/16/1999	04/17/1999
04/14/1999	05/14/1999	24:00	0500			0519 N2	0515 N2		
ACETAMINOPHEN TAB			1100			R1130 N2	H1146 N2		
ACETAMINOPHEN 325MG TAB			1700			1729 N3	1746 N3		
Give: 650MG PO Q6H			2300			2255 N3	2310 N3		
RPH: P2 RN: N2									
04/13/1999	04/23/1999	24:00	0500		1324 N2		1400 N2		
AMOXICILLIN CAP,ORAL			1300						
AMOXICILLIN 250MG CAPS Give:			2100						
250MG PO Q8H									
Spec Inst: FOR 10 DAYS ONLY									
RPH: P2 RN: N2									
04/13/1999	05/13/1999	24:00	0600			0913 N2	1325 N3		
ARTIFICIAL TEARS SOLN,OPH			0800			1400 N2	1330 N2		
ARTIFICIAL TEARS /ML Give: 2			1000				1400 N2		
GTTS OPH			1200				1401 N2		
0600-0800-1000-1200-1400-1600-			1400						
-1800-2000-2200			1600						
Spec Inst: WHILE AWAKE			1800						
RPH: P2 RN: N2			2000						
			2200						

=====

3.7 Missing Dose Request

This option allows the user to submit a Missing Dose Request to Pharmacy using the screen illustrated in Exhibit 11, Missing Dose Request Screen. Once submitted, the request prints on a predefined printer and an electronic MailMan message is sent to the predefined mail group.

EXHIBIT 11: MISSING DOSE REQUEST SCREEN

```

677TEST i2w - Reflection 2
File Edit Connection Setup Script Window Help

Request #: MD-19990401-163917                                     Missing Dose Request
-----
Requesting User:  TUCKER, CHRIS                                Division: TOPEKA, KS
Request Date/Time: APR 1, 1999@16:39

Patient Name:  KZTAAR,*TEST*KEITH D
Ward Location: MICU-T

Missing Drug:  ACETAMINOPHEN 325MG TAB
Dosage Needed: 650mg
Reason Needed: DROPPED

Administration Date/Time: APR 1, 1999@16:43
Needed by Date/Time:    APR 1, 1999@17:00

Exit      Save      Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND: E [REDACTED]      Press <PF1>H for help      Insert
978.11      VT400-7 - 152131.6217 via TELNET      Compose Num Caps Hold

```

To enter a Missing Dose Request, perform the following steps:

1. In the Patient Name field, type the patient's name, and press **<Enter>**
2. In the Ward Location field, type the ward designation, and press **<Enter>**.
3. In the Missing Drug field, type the medication, and press **<Enter>**.

☞ To view a list of appropriate formats for the Missing Drug field, type a **?** in the Missing Drug field and press **<Enter>**. Explanation of the ways to enter a medication will display on the bottom part of the screen.

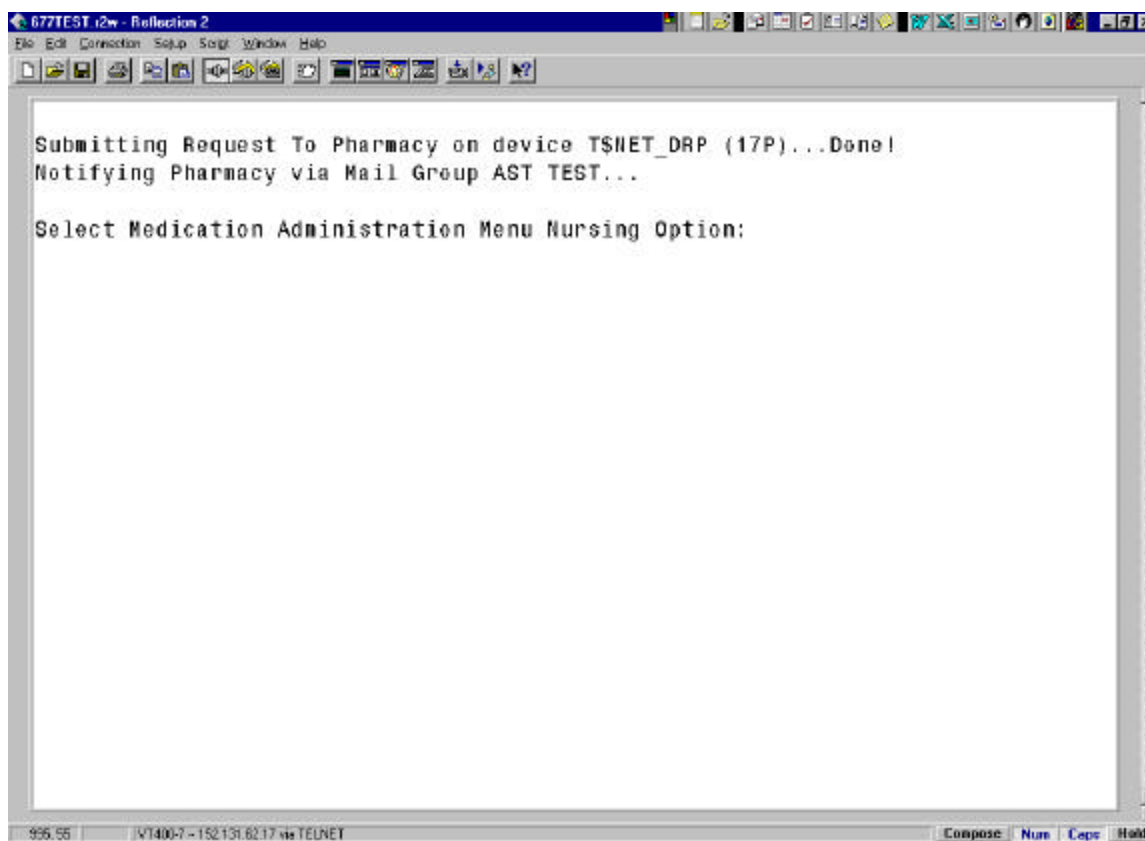
4. In the Dose Needed: field, type the dose, and press **<Enter>**.
5. In the Reason Needed: field, type a reason, and press **<Enter>**.

☞ To view a list of allowable reasons, enter a **?** on the Reason Needed field, and press **<Enter>**. A list will display in the bottom part of the screen.

6. In the Administration Date/Time field, type in a date and time, and press **<Enter>**.
7. In the Needed by Date/Time: field, type in a date and time, and press **<Enter>**.
8. In the COMMAND field, type **S** for Save, **E** for Exit, or **R** to Refresh the screen, and press **<Enter>**.

☞ If the user tries to exit the screen and the data has not been saved, the system will display the following message: Save changes before leaving form (Y/N)?. If the user enters **N**, the data will not be saved. If the user enters **Y**, the changes will be saved. The menu selection screen will display with a message confirming that the request has been submitted to Pharmacy via the appropriate mail group, as shown in Exhibit 12, Missing Dose Request Confirmation Screen.

EXHIBIT 12: MISSING DOSE REQUEST CONFIRMATION SCREEN



The Missing Dose Request will print on the designated printer. The e-mail message that is generated appears as shown in Exhibit 13, Missing Dose E-mail Notification

EXHIBIT 13: MISSING DOSE E-MAIL NOTIFICATION

MailMan message for TUCKER, CHRIS PHARMACIST
Printed at TOPEKA.MED.VA.GOV 11 Jun 99 11:26
Subj: BCMA - Missing Dose Request [#8209824] 10 Jun 99 09:05 14 Lines
From: CARLSON, RUSSELL - R.N. (118) in 'WASTE' basket. Page 1

REQUEST NUMBER:.....MD- 19990610- 090536
DATE/TIME ENTERED:.....APR 1, 1999@09: 05: 36
ENTERED BY:.....CARLSON, RUSSELL
DIVISION:.....TOPEKA, KS
SENT TO MAILGROUP:.....BCMA BETA TEST
PRINTED ON DEVICE:.....TSLTA348 INP NORTH (D18-48)
PATIENT:.....KZTAAR, *TEST*KEITH D
WARD LOCATION:.....BCMA
DRUG REQUESTED:.....ACETAMINOPHEN 325MG TAB (263)
DOSE NEEDED:.....650 MG
REASON NEEDED:.....DROPPED
ADMINISTRATION DATE/TIME:...APR 1, 1999@16: 43
NEEDED BY DATE/TIME:.....APR 1, 1999@1700

Select MESSAGE Action: IGNORE (in WASTE basket)//

3.8 Missing Dose Follow-up

The Missing Dose Follow-up allows Pharmacy to electronically respond to a Missing Dose Request submitted by Nursing. Pharmacy can enter a reason the dose was missing, the time the dose was delivered, and who delivered the dose.

To create a Missing Dose Follow-up message, perform the following steps:

1. In the Select Missing Dose Request field of the screen illustrated by Exhibit 14, Missing Dose Follow-up Screen, select the missing dose number from the list provided, and press <Enter>.

EXHIBIT 14: MISSING DOSE FOLLOW-UP SCREEN

dhc.p.r2w - Reflection 2

File Edit Connection Setup Script Window Help

Currently Unresolved Missing Dose Requests

1.	MD-19990726-114414	KANSAS,BCPATIENT	1-4CI-T
	ACETAMINOPHEN 325MG TAB		
2.	MD-19990716-152522	ARIZONA,BCPATIENT	BCMA
	FUROSEMIDE 10MG/ML INJ /ML		
3.	MD-19990716-132115	ARIZONA,BCPATIENT	BCMA
	FUROSEMIDE 10MG/ML INJ /ML		
4.	MD-19990716-075607	MASSACHUSETTS,BCPATIENT	BCMA
	FUROSEMIDE 10MG/ML INJ /ML		
5.	MD-19990715-093041	INDIANA,BCPATIENT	BCMA
	ALBUTEROL 0.083% INHL SOLUTION 3ML EA.		
6.	MD-19990714-160406	KENTUCKY,BCPATIENT	BCMA
	CLOTRIMAZOLE 1% CREAM /GM		
7.	MD-19990714-144311	INDIANA,BCPATIENT	BCMA
	ARTIFICIAL TEARS /ML		
8.	MD-19990713-154840	COSMO,RANDY B	1-4CI-T
	IPRATROPIUM BROMIDE INHALER		

Select Missing Dose Request #: (1-8):

9535, 40 VT400-7 -- vista via TELNET Compose Num Caps Hold

- The Missing Dose Request Pharmacy Follow-up Information screen will appear, as shown in Exhibit 15.

EXHIBIT 15: MISSING DOSE REQUEST PHARMACY FOLLOW-UP INFORMATION SCREEN

```

677TEST i2w - Reflection 2
File Edit Connection Setup Script Window Help
-----
Request #: MD-19990401-165501                               Missing Dose Request
-----
Requesting User:  TUCKER,CHRIS                               Division: TOPEKA, KS
Request Date/Time: APR 1,1999@16:55

Patient Name:     KZTAAR,*TEST*KEITH D                       Ward: NICU-T
Drug Requested:   ACETAMINOPHEN 325MG TAB

***** Pharmacy Followup Information *****

Dose Delivered:    YES
Delivered By:      TUCKER,CHRIS
Delivery Date/Time: APR 2,1999@07:36
Pharmacy Reason Needed: NOT ENOUGH PRNS

Exit      Save      Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND: E [REDACTED]                                     Press <PF1>H for help  Insert
518.11      VT400-7 --152131.6217 via TELNET      Compose  Nums  Caps  Hold

```


- In the Dose Delivered field, type **Yes**, and press **<Enter>**.
- There may be instances where a missing dose is requested for an item that is no longer active. If the medication is no longer an active order or will not be delivered, enter **No** in this field.
- In the Delivery Date/Time field, type **N** for Now or the date and time that the dose was delivered, and press **<Enter>**.
- In the Pharmacy Reason Needed field, type a number that corresponds to a selection in the Exhibit 16, Pharmacy Reasons Needed Selection Table.

EXHIBIT 16: PHARMACY REASONS NEEDED SELECTION TABLE

1	WS/FILL ON REQUEST
2	FOUND IN DRAWER
3	PHARMACIST ERROR
4	EXPIRED/NO ORDER

5	ATC ERROR
6	NOT ENOUGH PRNS
7	TECHNICIAN ERROR
8	ON PRE- EXCHANGE/PICK LIST
9	PATIENT TRANSFERRED
10	NURSE ADMIN ERROR

7. In the COMMAND field, type **S** to Save, **E** to Exit, or **R** to Refresh, and press **<Enter>**.

 If the user tries to exit the screen and the data has not been saved, the system will display the following message: Save changes before leaving form (Y/N)?. If the user enters **N**, the data will not be saved. If the user enters **Y**, the changes will be saved. The system confirms that the information has been saved and returns the user to the Select Medication Administration Menu Pharmacy Option.

3.9 Missing Dose Report

The Missing Dose Report provides information about missing doses that were submitted by ward or for all wards. To request a Missing Dose Report, use the screen illustrated in Exhibit 17, Missing Dose Report Request Screen.

EXHIBIT 17: MISSING DOSE REPORT REQUEST SCREEN

```

dhcp.r2w - Reflection 2
File Edit Connection Setup Script Window Help
[Icons]
Request #: MD-19990726-115926 Missing Dose By Ward
-----
Start Date: APR 14,1999 At: 0:01a
Stop Date: APR 17,1999 At: 12:00m
Ward (Return for All): BCMA

Print to DEVICE: BROWSER
Queue To Run At: JUL 26,1999@11:59
Instructions: PF1-E Submit PF1-Q Cancel PF1-R Refresh <Ret> Re-Edit: █

COMMAND: Press <PF1>H for help Insert
9829, 76 VT400-7 -- vista via TELNET Compose Num Caps Hold

```

1. In the Start Date field, type in the start date of the report, and press **<Enter>**. (The cursor will move to the next field each time **<Enter>** is pressed.)
- ➡ To display a list of standard date and time formats, enter **?** in any date or time field, and press **<Enter>**.
2. In the first At field, type the start time of the report (in HHMM format), and press **<Enter>**.
3. In the Stop Date field, type in the stop date, and press **<Enter>**.
4. In the second At field, type the stop time (in HHMM format), and press **<Enter>**.
5. At the Ward (Return for All) field, type in the desired ward and press **<Enter>**. To select all wards, do not enter a specific ward; just press **<Enter>**

A sample report is shown in Exhibit 18, Missing Dose Report.

EXHIBIT 18: MISSING DOSE REPORT

=====		
MISSING DOSE REPORT FROM APR 14, 1999@00:01 thru APR 17, 1999@24:00		Run Date: JUL 26, 1999@12:02
SELECTED WARDS		Page: 1
=====		
Ward Location	Medication	Total

BCMA	ACETAMINOPHEN 325MG TAB	2
	ACETAMINOPHEN 500MG CAPLET	1
	ALPRAZOLAM 1MG TAB	1
	AMOXICILLIN 250MG CAPS	1
	ASCORBIC ACID 500MG TAB	1
	DIAZEPAM 10MG TAB	2
	DIGOXIN 0.05MG/ML ELIX (60CC)	1
	DIGOXIN 0.125MG TAB	3
	DIPHENHYDRAMINE 25MG CAP	1
	DOCUSATE SODIUM 100MG CAP	1
	FUROSEMIDE 20MG TABS	2
	HALOPERIDOL 2MG TAB	1
	HALOPERIDOL CONCENTRATE 2MG/ML (ML)	1
	HALOPERIDOL DECANOATE 100MG/ML INJ /ML	1
	HYDROCORTISONE 1% CREAM /GM	1
	INSULIN REGULAR (HUMULIN) U-100 10ML	1
	IPRATROPIUM BROMIDE INHALER	17
	MULTIVITAMIN TAB	1
	OXYCODONE 5MG/APAP 325MG TAB	1
	OXYCODONE 5MG/APAP 325MG TAB UD	1
	PROCHLORPERAZINE 10MG TAB	4
	PROCHLORPERAZINE INJ 5MG/ML (ML)	2
	RESERPINE 0.1MG TAB	17
	THEOPHYLLINE 125MG TAB	1
	Ward BCMA Total:	65
		=====
Report Total:	65	

3.10 Label Print

The Label Print option allows Pharmacy to create bar coded medication labels using a Zebra printer. Exhibit 19, Bar Code Label Screen, illustrates the screen used to create bar code labels.

EXHIBIT 19: BAR CODE LABEL SCREEN

BCMA CHUI - KEAI 420

File Edit View Tools Options Help

Request #: BL-19990802-095832 Bar Code Label

Drug Name: [REDACTED]

Lot #: [REDACTED]

Expiration Date: [REDACTED]

Manufacturer: [REDACTED]

Quantity: [REDACTED]

Filled By: [REDACTED]

Checked By: [REDACTED]

Labels: 1

Patient Name: [REDACTED]

Dosage: [REDACTED]

Print to DEVICE:

Queue To Run At: AUG 2, 1999 09:58

Instructions: PF1-E Submit PF1-Q Cancel PF1-R Refresh <Ret> Re-Edit:

COMMAND: Press <PF1>H for help Insert

1(004,013)

Show Buttons

To create bar code labels, perform the following steps:


☛ The Drug Name, Filled By, and Checked By fields are required.

1. In the Lot # field, enter the Lot #, and press **<Enter>**.
2. In the Expiration Date field, enter a date, and press **<Enter>**.
3. In the Manufacturer field, enter the manufacturer's name, and press **<Enter>**.
4. In the Quantity field, enter a quantity between 0.25 and 9999 (up to two decimal places), and press **<Enter>**.
5. In the Filled By field, type your initials, and press **<Enter>**.
6. In the Checked By field, type your initials, and press **<Enter>**.

☛ If it is unknown who will fill or check the order, enter three underscores in the Filled By or Checked By fields, and press **<Enter>**. This will give someone space to initial the label at a later time.

7. In the # Labels field, type the number of labels needed between 1 and 999, and press **<Enter>**.


8. In the Patient Name field, type the patient's name, and press **<Enter>**.
9. In the Dosage field, enter a dosage and press **<Enter>**.

 The Dosage field will accept entries from two to 30 alpha/numeric characters.

10. In the Print to Device field, type the Zebra printer assigned to the ward, and press **<Enter>**.
11. In the Queue to Run At field, enter a date and time, and press **<Enter>**.
12. In the **<RET>** Re-Edit field, press **PF1 - E** to print the label, **PF1 - Q** to Quit or **PF1 - R** to Refresh the screen.

A sample label is shown in Exhibit 20, Sample Bar Code Label.

EXHIBIT 20: SAMPLE BAR CODE LABEL

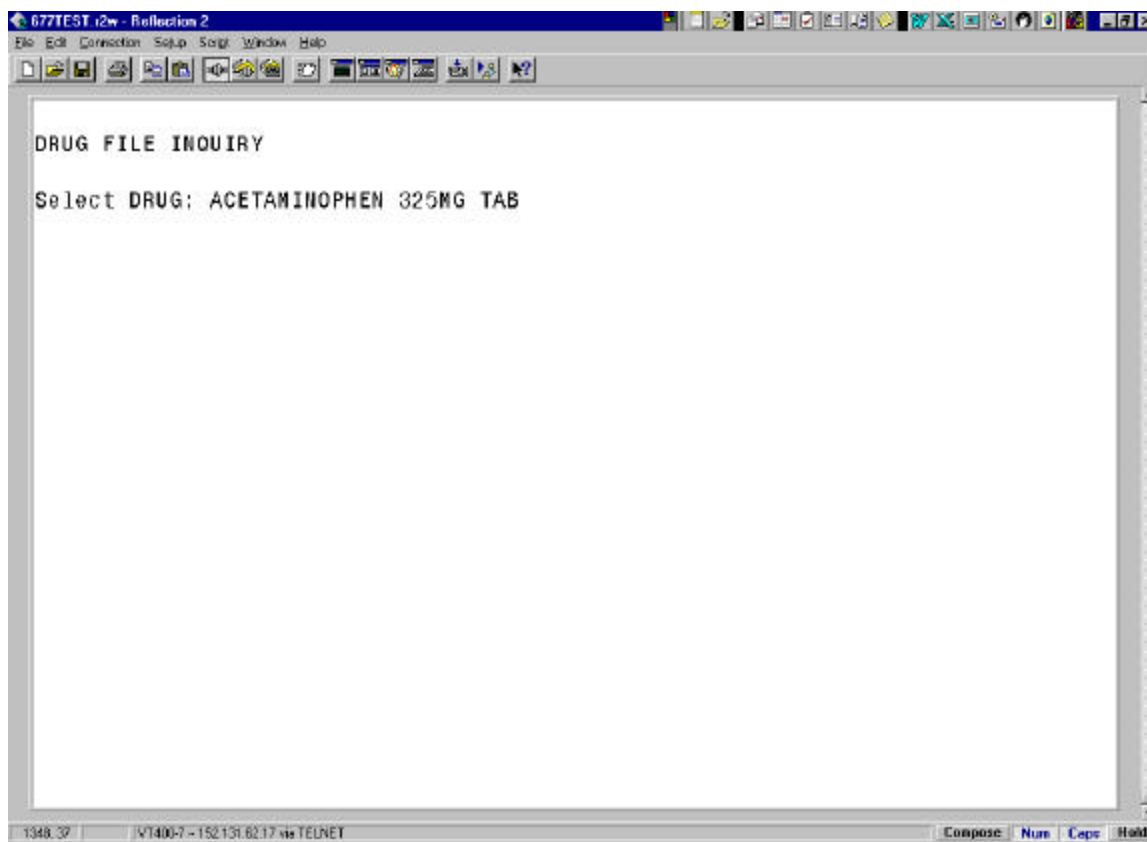
Drug: BECLOMETHASONE INHALER	
	KZTAAR,*TEST*KEITH D
	Ward: BCMA
	
1644	Filled /Checked By; CLT/CLT

3.11 Drug File Inquiry

The Drug File Inquiry allows Pharmacy to check the bar code IEN numbers listed on dispensed unit dose drugs. If the incorrect bar code is affixed, the Drug File Inquiry will help the user resolve the discrepancy. The screen illustrated in Exhibit 21, Drug File Inquiry Screen 1 is used to run a Drug File Inquiry.

- ☛ The IEN number appears on the first line of the screen next to the drug name. Any additional synonyms that have been loaded also appear under the Synonym heading of this option.

EXHIBIT 21: DRUG FILE INQUIRY SCREEN 1



To run a Drug File Inquiry, perform the following steps:

1. In the Select Drug field, type the name and dosage of the drug, and press **<Enter>**.

- ☛ Type the IEN number from the Due List or the name of the drug using either the trade name or the generic name. To display a list of standard formats for drug names, enter ? in the Select Drug field, and press **<Enter>**.

2. The Drug File information will display as illustrated in Exhibit 22, Drug File Inquiry Screen 2.

EXHIBIT 22: DRUG FILE INQUIRY SCREEN 2

677TEST.r2w - Reflection 2

File Edit Connection Setup Script Window Help

DRUG NAME: ACETAMINOPHEN 325MG TAB (IEN: 263)

PRICE PER DISPENSE UNIT: 0.004
NATIONAL DRUG CLASS: CN103
NON-FORMULARY:
QUANTITY DISPENSE MESSAGE: DISPENSE IN MULTIPLES OF 100
CMOP DISPENSE: YES
MESSAGE: 90 DAY FILL *ATC A/B*

SYNONYMS:

APAP	TYLENOL
ACET325	000677000100
051111048893	

415, 42 VT400-7 -- 152.131.62.17 via TELNET Compose Num Caps Hold

- ☞ The IEN is unique to this drug file entry. In most cases, it is the bar coded number on the unit dose packages that are created in the Pharmacy. Manufacturers National Drug Code (NDC) bar codes may appear in the synonym field of this display. If the drug is non-formulary, this field will be set to N/F.

4 GLOSSARY

This section contains acronyms and definitions for terms used in this document.

4.1 Acronyms

BCMA	Bar Code Med Admin
CHUI	Character-based User Interface
CPRS	Computerized Patient Record System
GUI	Graphical User Interface
HFS	Host File Server
HSM	Hospital supplied self-medications
IEN	Internal Entry Number
MAH	Medication Administration History
N/F	Non-formulary
NCD	National Drug Code
PC	Personal computer
PRN	Pro Re Nata [Latin]
SM	Self-medications
TCP/IP	Transmission Control Protocol/Internet Protocol
VA	Department of Veterans Affairs
VAMC	Veterans Affairs Medical Center
VDL	Virtual Due List
VHA	Veterans Health Administration
VISN	Veterans Integrated Services Network
VISTA	Veterans Health Information Systems and Technology Architecture

4.2 Definitions

Audits	Tracking changes to records including old data, new data, and the name of the user who made the change.
BCMA	Bar Code Med Admin is a VISTA software application that validates medications against active orders prior to being administered to the patient.
CPRS	The Computerized Patient Record System is a VISTA software application that provides an integrated patient record system for use by clinicians, managers, quality assurance staff, and researchers.

Given	When a medication is administered to the patient, it is considered Given.
HFS	Host File Server is a system (WinNT/Dec Alpha) file access mechanism that enables the M software to access the system-level files.
IEN Drug Code	The internal drug number (IEN) that is entered into Inpatient Medications V. 5.0
Not Given	A medication that is intentionally Not Given for a specified reason.
Omitted	A medication that was not given during the medication pass because it was unintentionally missed.
PRN	Latin abbreviation for <i>pro re nata</i> meaning “as needed.”
ScreenMan	VA FileMan's ScreenMan utility provides a screen-oriented interface for editing and displaying data.
SRS	Document which outlines the functional requirements for a project.
TCP/IP	A protocol developed by the Department of Defense for communications between computers. TCP/IP has become the standard for data transmission over networks, including the Internet.
VA FileMan	VISTA 's database management system.
VDL	The Virtual Due List is a GUI application used by nurses when administering medications.

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